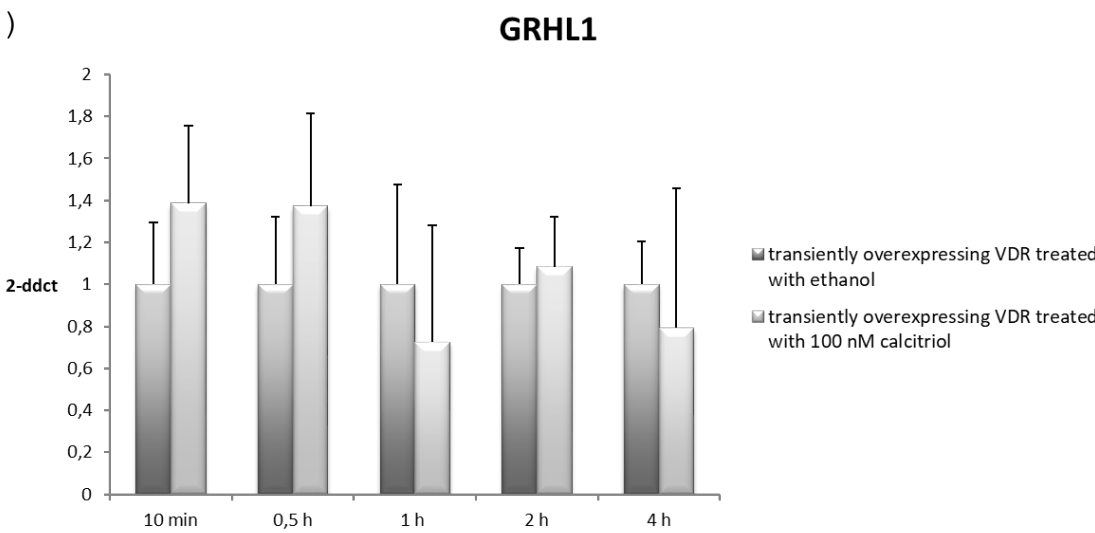
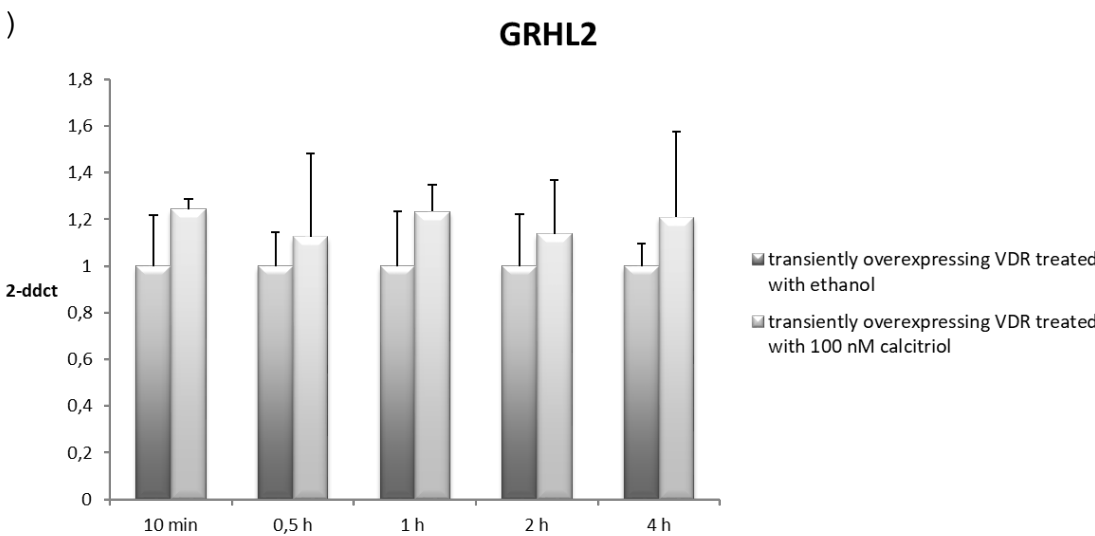


(A)

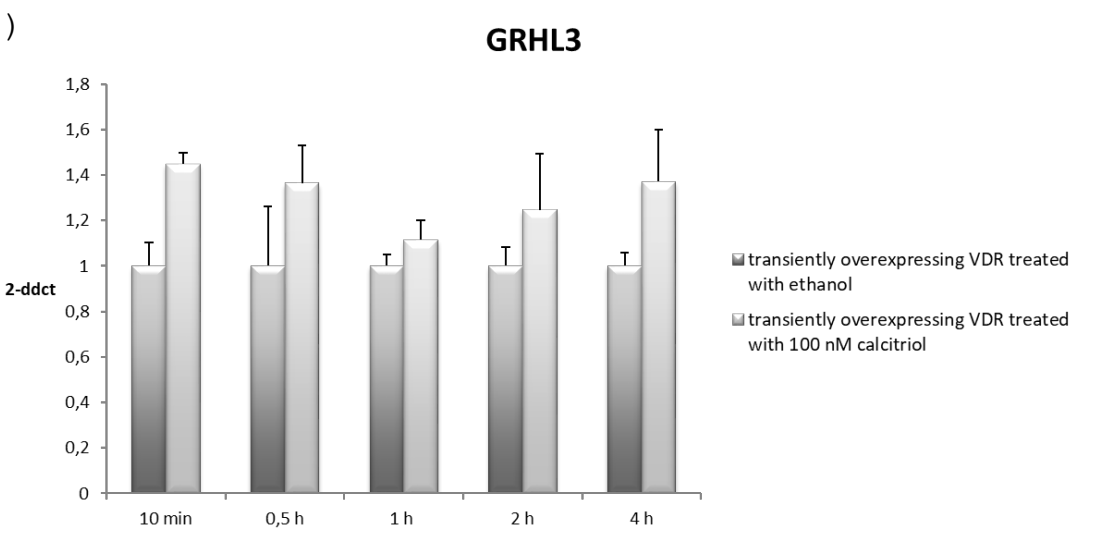
(1)



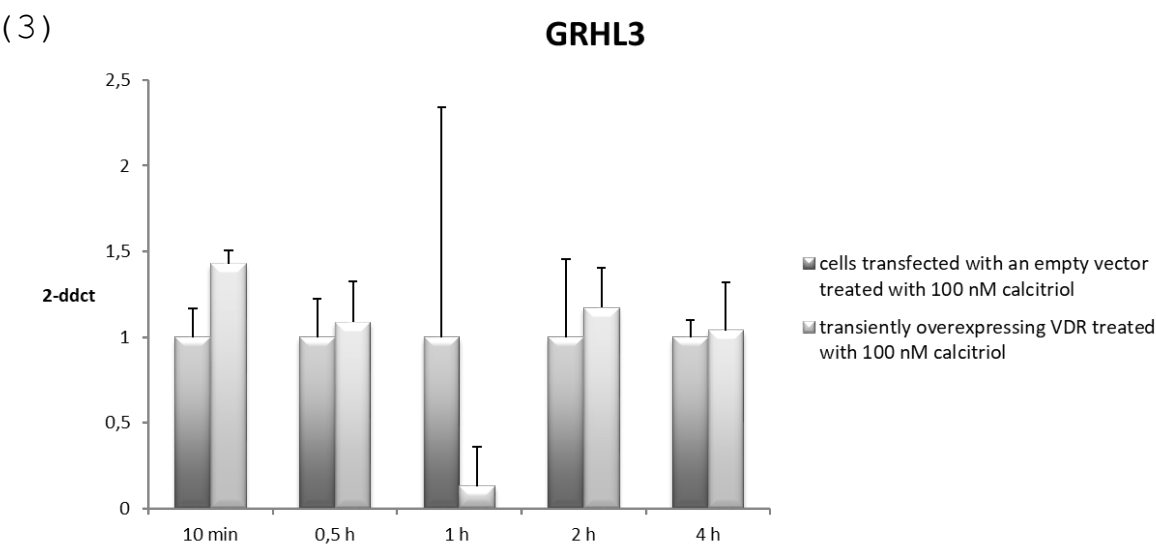
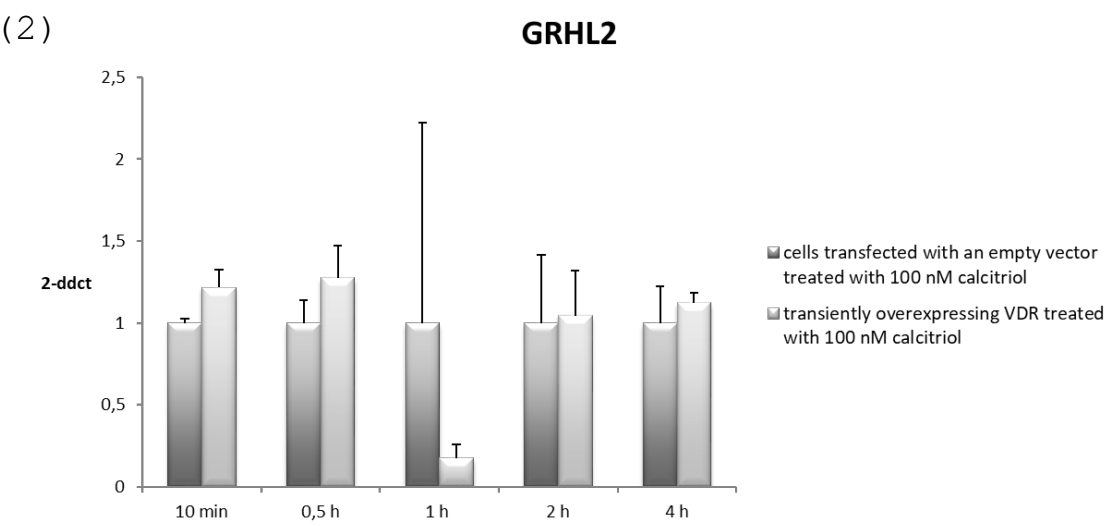
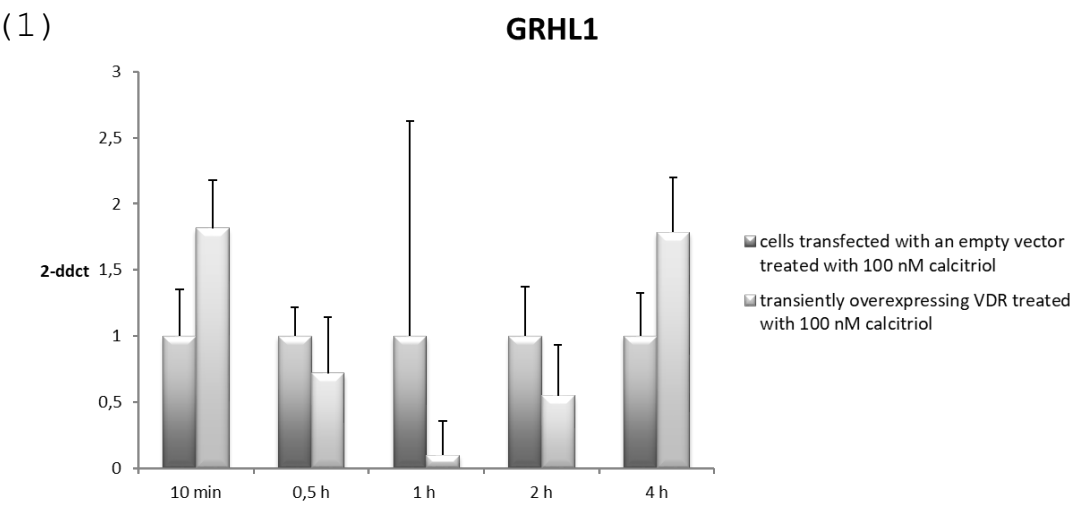
(2)



(3)

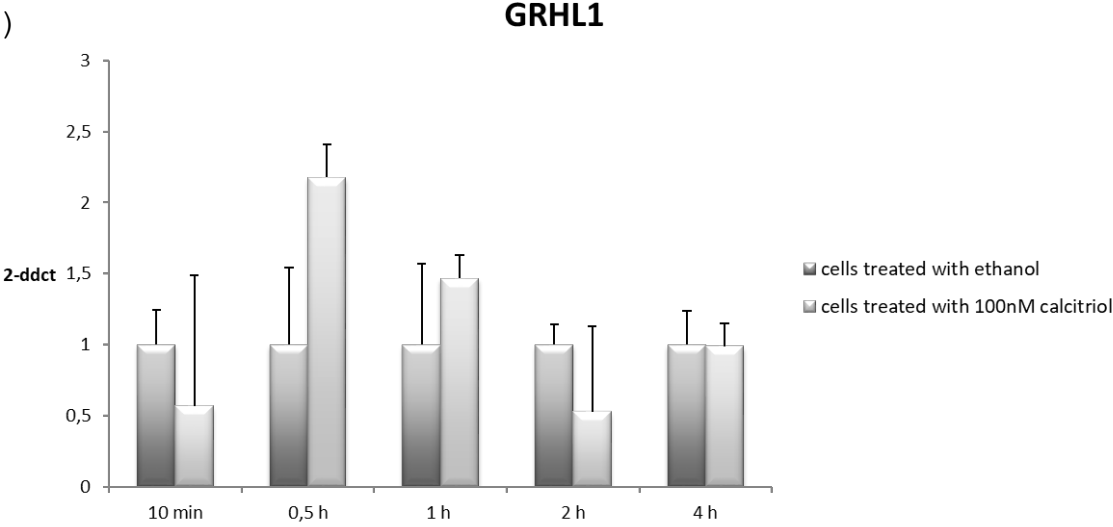


(B)

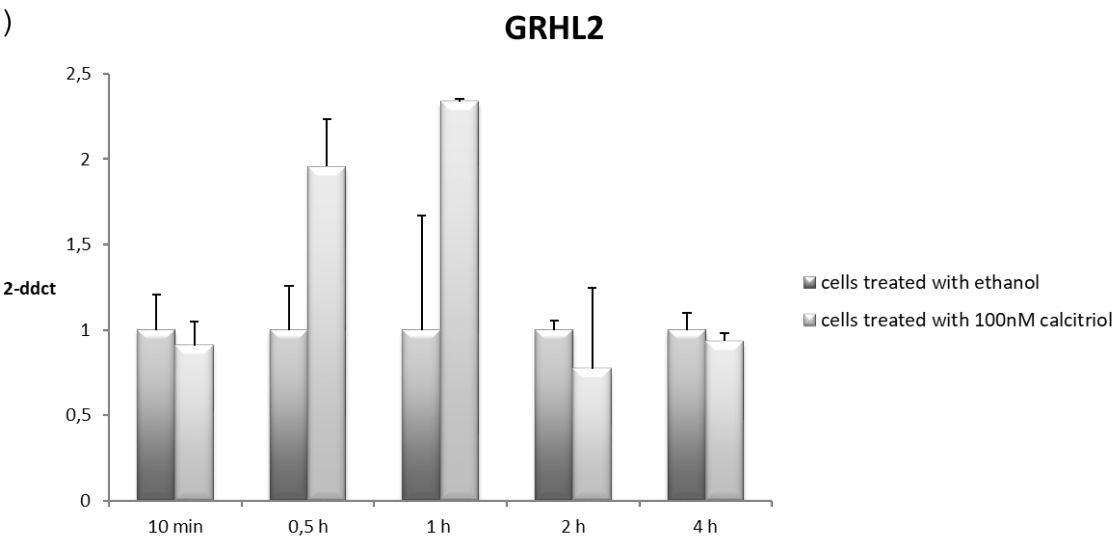


(C)

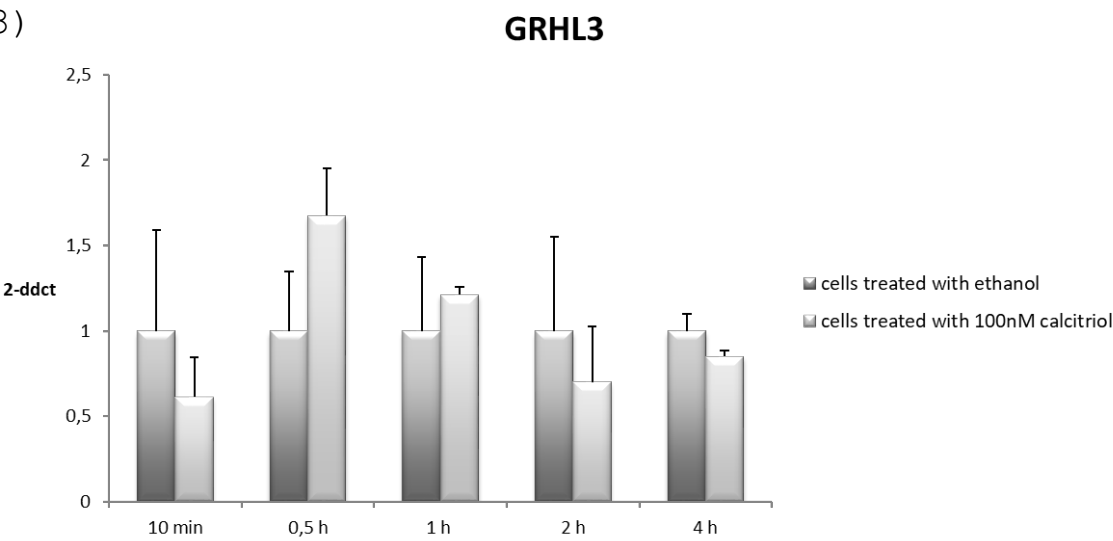
(1)



(2)



(3)



**Supplementary Figure S1.** The mRNA expression levels of GRHL1-3 genes in HaCaT cells.

(A) HaCaT cells transfected with the pcDNA3.1-VDR, treated with 100 nM calcitriol or ethanol vehicle (control group) for 10 min, 30 min, 1 hour, 2 hours, or 4 hours (B) HaCaT cells transfected with the pcDNA3.1-VDR-DYK vector treated with 100 nM calcitriol for (1) for 10 min, 30 min, 1 hour, 2 hours, or 4 hours (C) HaCaT cells treated with 100 nM calcitriol or ethanol (control group) for for 10 min, 30 min, 1 hour, 2 hours, or 4 hours. The results represent relative expression of the respective target gene vs HPRT gene. Data are shown as means  $\pm$  SD of experiments independently performed in triplicate